SHIPMAIN

An Overview of the SHIPMAIN Maintenance and Alterations Planning Process

CAPT Pedersen

SHIPMAIN Overview

SHIPMAIN is a Navy-wide initiative to create a surface ship maintenance and modernization program that will support the vision of “Sea Power 21” and its “Culture of Readiness” (COR). Included in the program are:

1. Requirements: Beginning with inputs from the fleet or the Alts & MODs process and ending with documentation to planning organizations;
2. Package Prep: Beginning at planning organizations and ending with approved and funded work package specs to contracting organizations;
3. Placement & Oversight: Beginning with funded work package specs and ending with contract awarded and contract admin work completed with the 2K closed in the CSMP;
4. Alts & MODS: Beginning with an idea and ending with scheduled installation into an avail.

SHIPMAIN - Objectives

- Increase the efficiency of the process without compromising its effectiveness
- Define a common planning process for surface ship maintenance and alterations
- Install a disciplined management process with objective measurements
- Institutionalize the process and a continuous improvement methodology for it

Senior Leadership Deeply Involved

SHIPMAIN PIT

VADM LaFleur (CNSF) – CEO

VADM Balisle (NAVSEA)
RADM Hart (N43)
RADM Etnyre (CNSL)
RADM Dwyer (PEO Carriers)

RDML Hugel (N43B)
RDML Bryant (N43)

Mr. Ryzewic (CPF N43)
Mr. Klein (SPAWAR)

VADM Malone (CNAF)
RDML Hamilton (PEO Ships)
RADM Sullivan (SEA 05)
Mr. Bauman (PEO C4I)
RDML LeFever (N75)
RDML Williams (SG 9)
RADM Edwards (N76)

RDML Harnitchek (NAVICP)
RDML Bush (PEO IWS)

COO RDML Brooks (CLF N43)

Process Team

Leader: RADM Brooks
AO: Dale Hirschman
TG: Rick Carosella

Communications Team

Leader: Fred Lash
TG: David Wesley

Metrics Team

Leader: Ed Moe
TG: Tom Belter
TG: Mr. Zych

CFT1 'Requirements'

Leader: RADM Etnyre
AO: CAPT Nimitz
Metrics: CDR Brown
TG: John Wagner

CFT2 'Package Preparation'

Leader: RDMLBryant
AO: Tom Coumes
Metrics: CDR Stancy
TG: Bob Wilkins

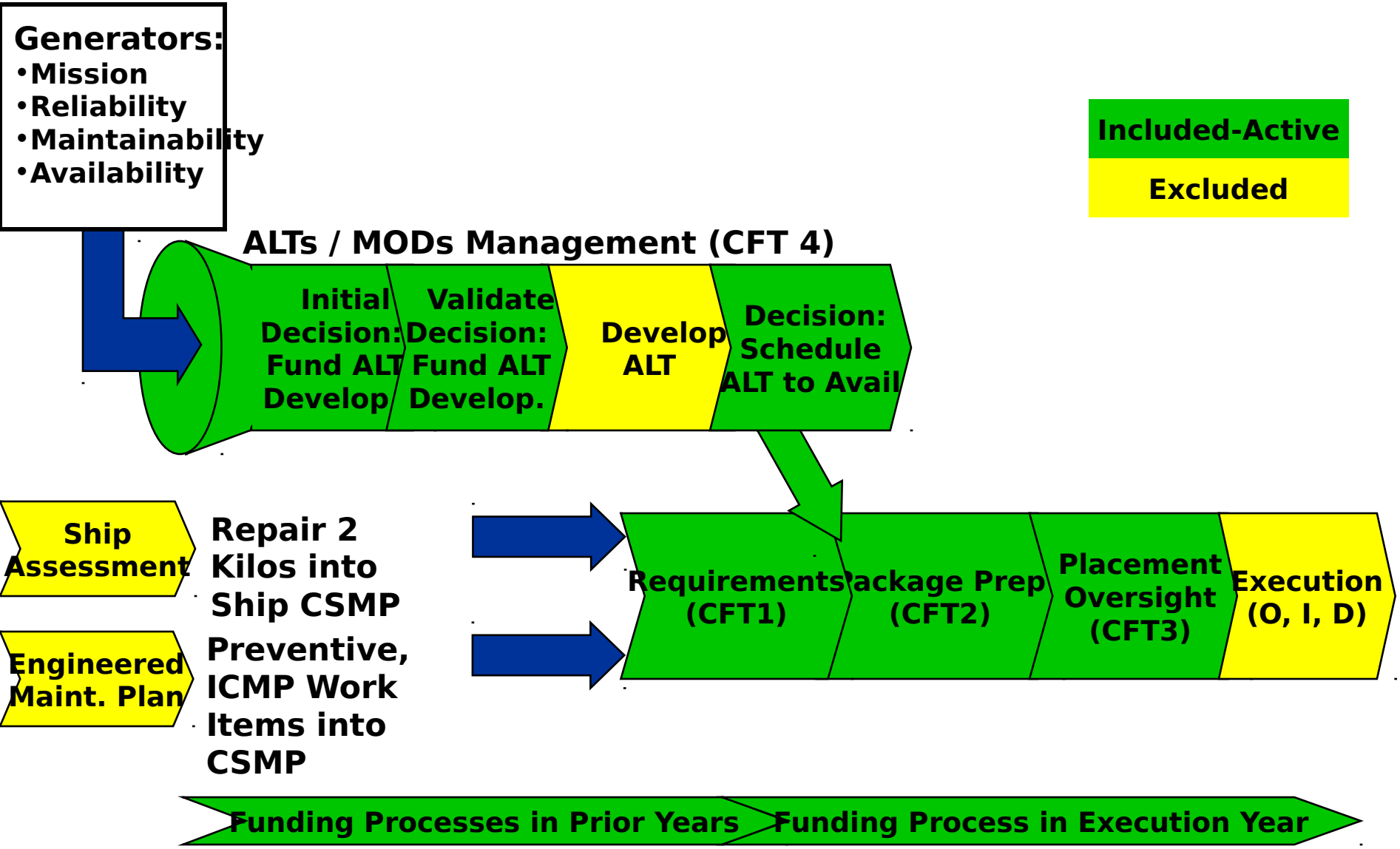
CFT3 'Placement & Oversight'

Leader: RDML Hugel
AO: CAPT Green
Metrics: CAPT Barbour
TG: Tom Meyer

CFT4 'Alt and Mods'

Leader: RADM Sullivan/Dwyer
AO: CAPT Pedersen
Metrics: CDR Tate
TG: Dean E Rock

Current Scope of SHIPMAIN Initiative



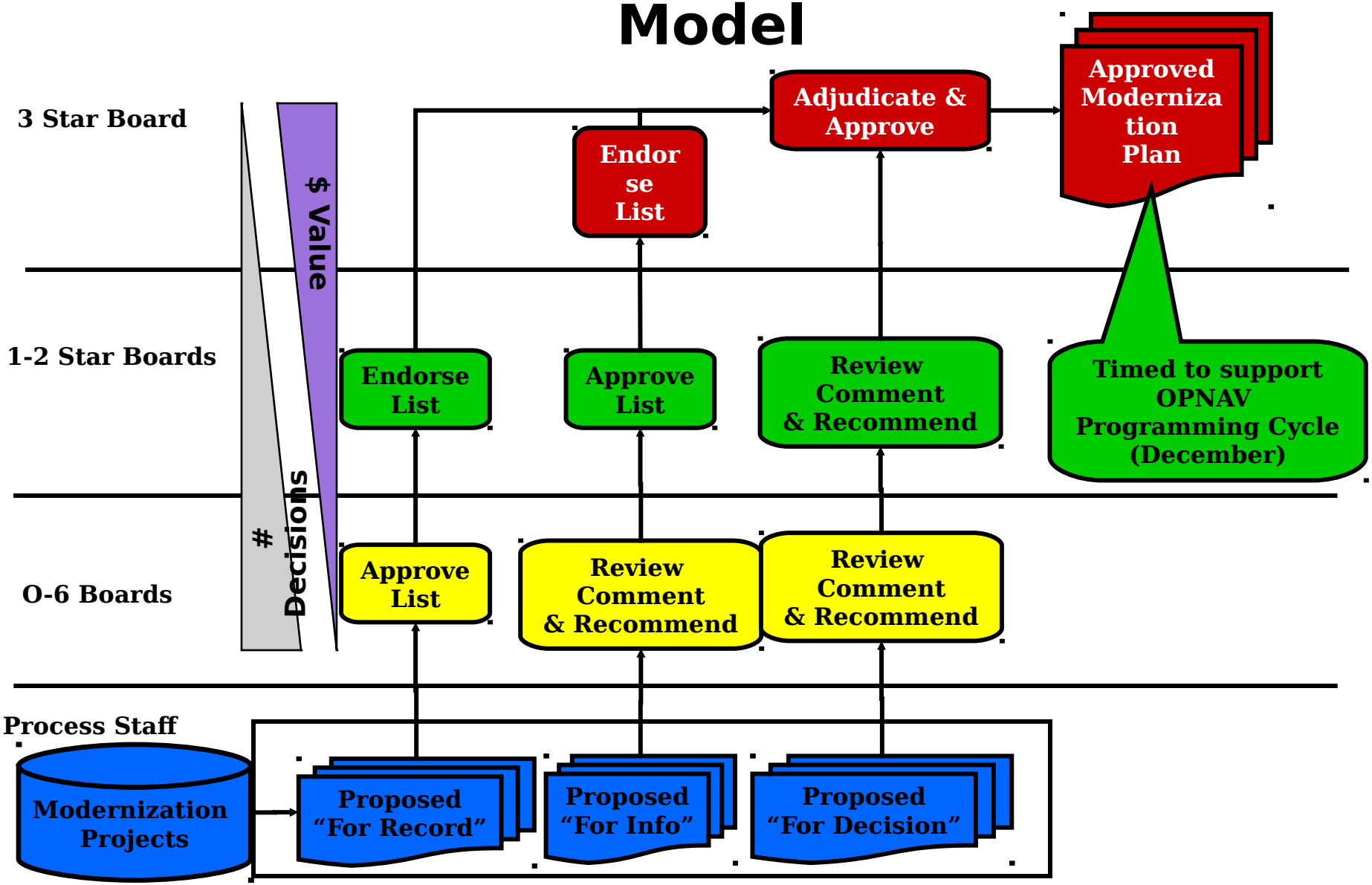
Entitled Modernization Process Key Points

- Collapse 40+ alteration types into 2 (Fleet Alt and Program Alt)
- Institutionalize a single, disciplined, hierarchical decision making process
- Develop a balanced Modernization Plan for Surface Ships
- Zero the Churn
- Install what we buy within 3 years.

Modernization Program Attributes

- All Major Stakeholders Involved Early
  - Fleet
  - TYCOMs
  - OPNAV
  - SYSCOMs
  - PEOs
- Single Process
  - Disciplined – based on Approved Business Rules
    - Fleet or Program Alteration
  - Process Owner is CNAF/CNSF
  - Process Administrator is SEA04
- Staff Issues Early
  - Technical Assessments, Cost Benefit Analysis and ALT Figure of Merit based decisions to “weed out” issues before expending significant developmental funds
- Aligned with DoD Acquisition Process
- Aligned with Budget Process

Hierarchical Mission-Driven Decision Model

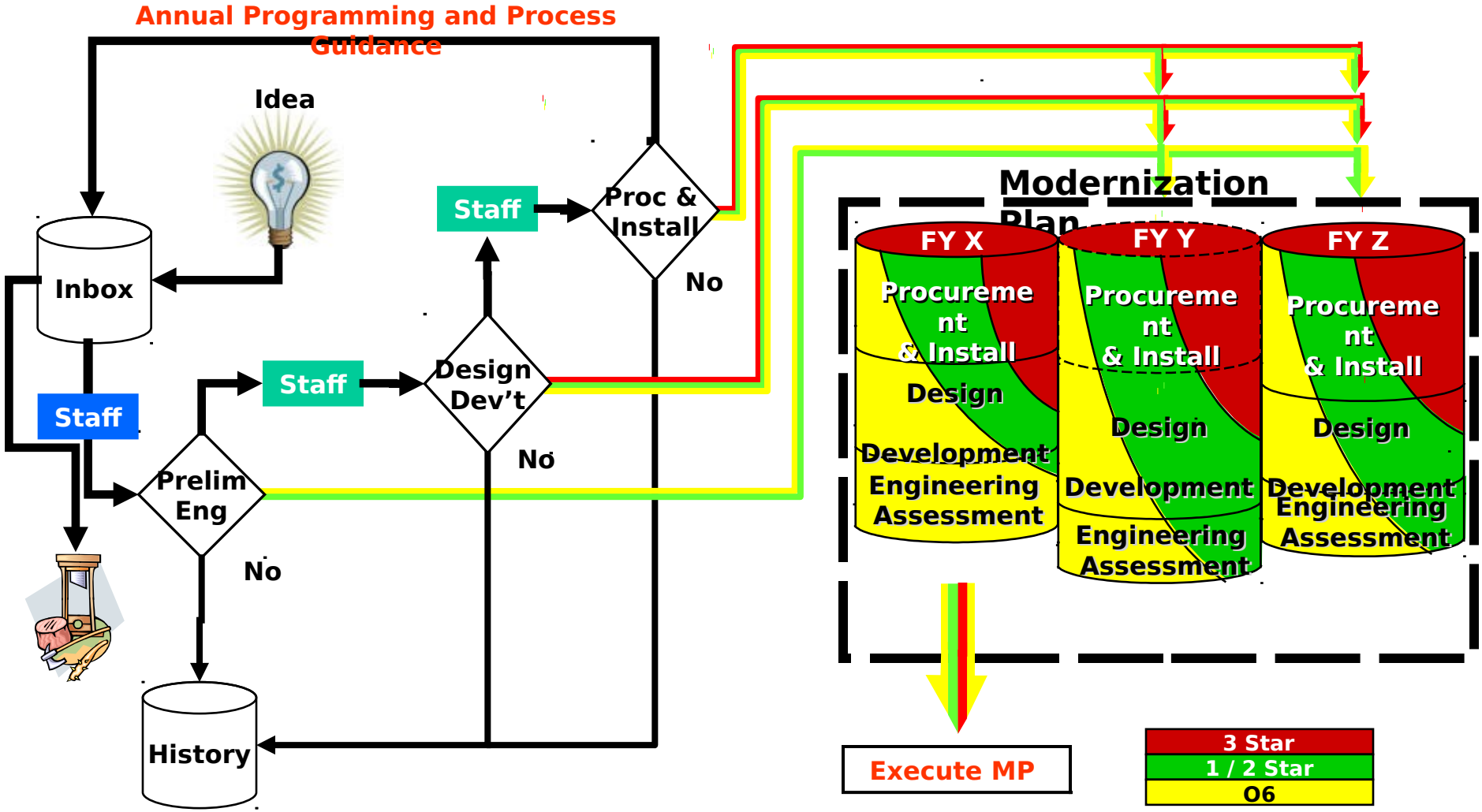


Decision Stakeholder Roles & Responsibilities

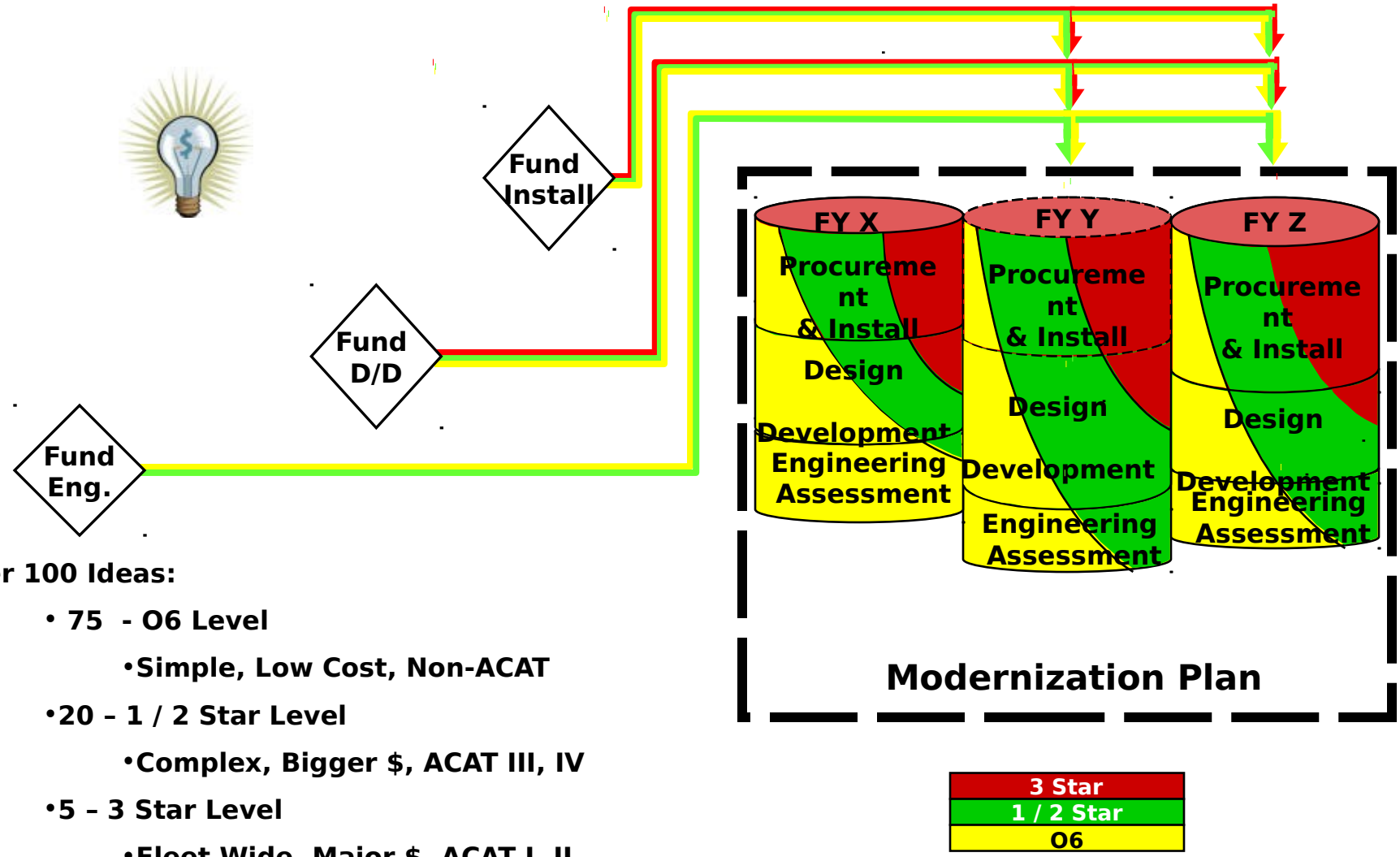
- **3 Star**
  - Set over all priorities
  - Approve Surface Ship Modernization Plan POM Submission
  - Validates 1 / 2 Star Decisions
  - Provides Fleet/OPNAV/Claimant recommendation to ACAT I and some ACAT II Program Milestone Decision Authority
- **1 / 2 Star**
  - Validates O6 Decisions
  - Adjudicates O6 Board Issues
  - Provides Fleet/OPNAV/Claimant recommendation to some ACAT II and ACAT III and below Program Milestone Decision Authority
- **O6**
  - Approves Fleet Alterations
  - Majority of Decisions made at O6 Board
  - Staff Decisions for higher level

Note: Program Alterations are approved at the appropriate level based upon threshold and ACAT designation

Modernization Program Development
(Building the Requirement and Budget)



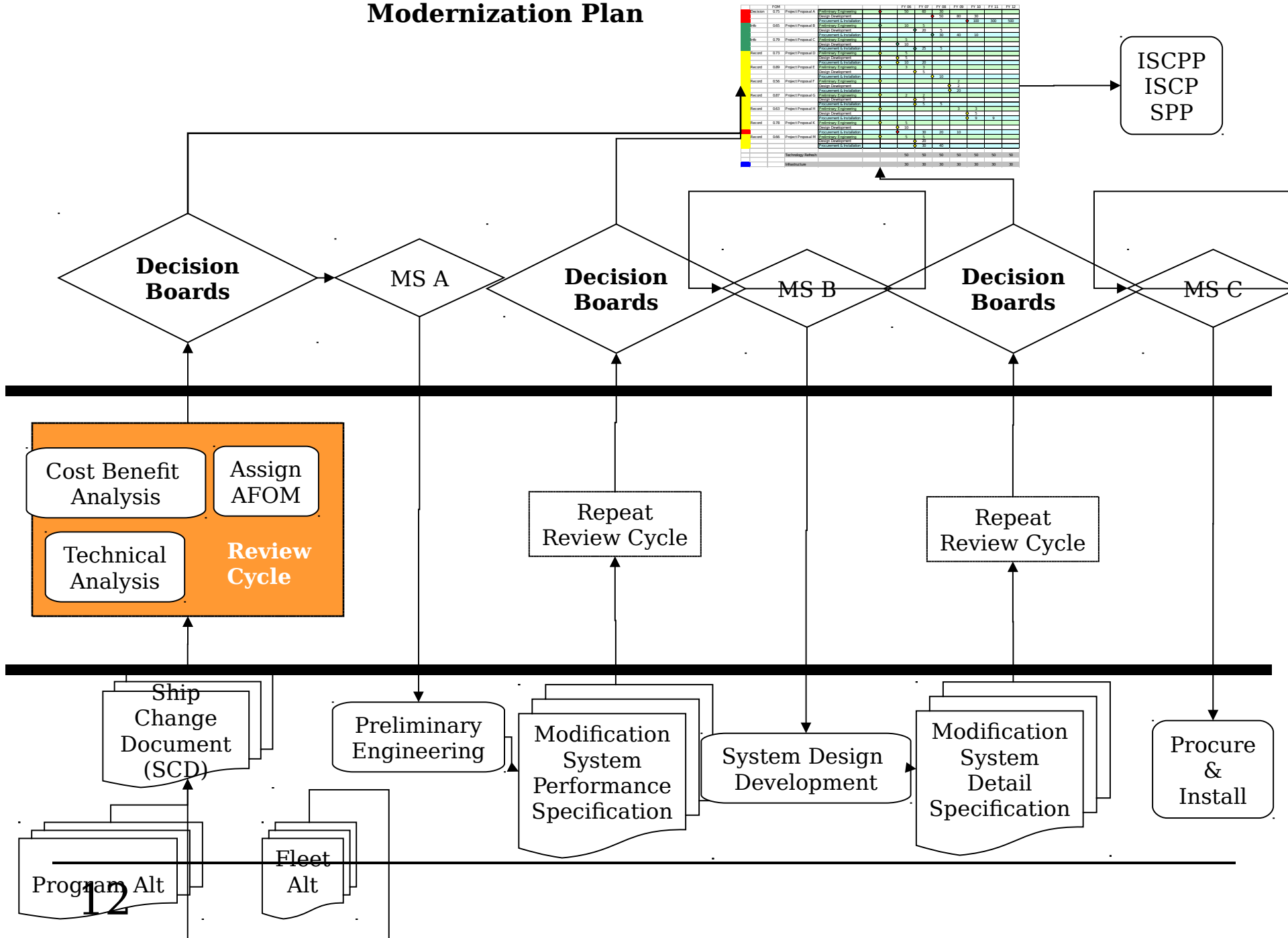
Annual Modernization Program Development

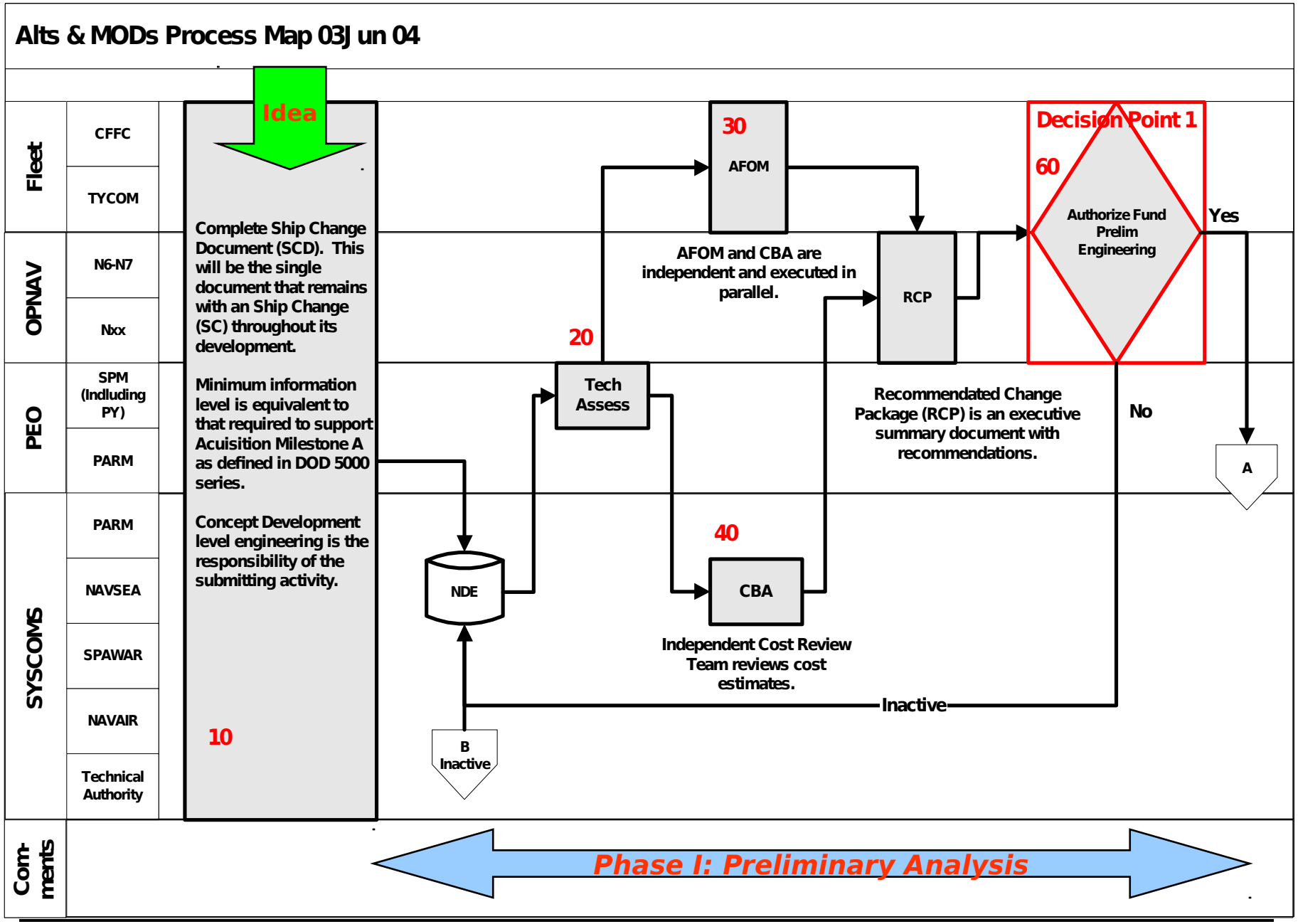


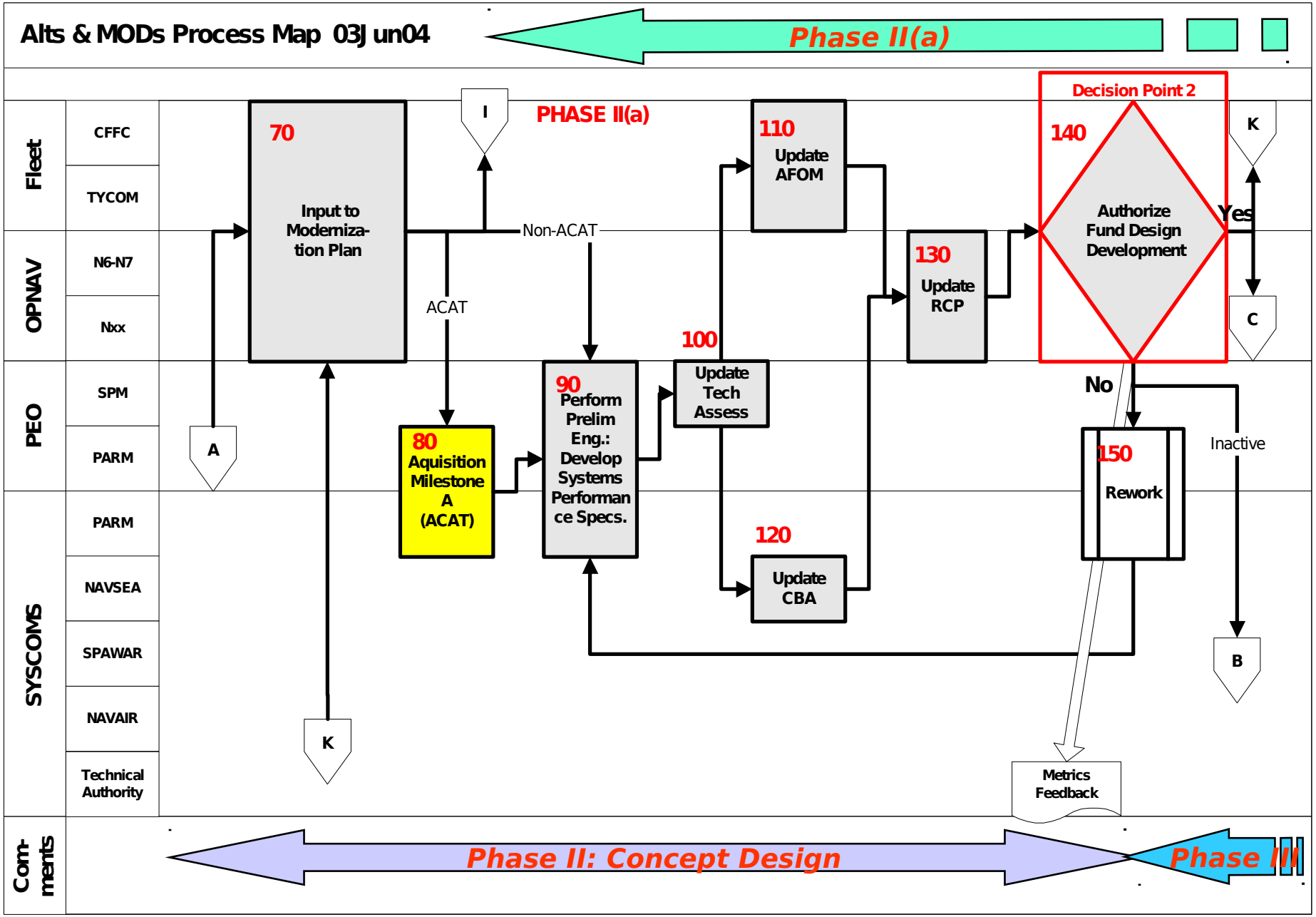
Per 100 Ideas:

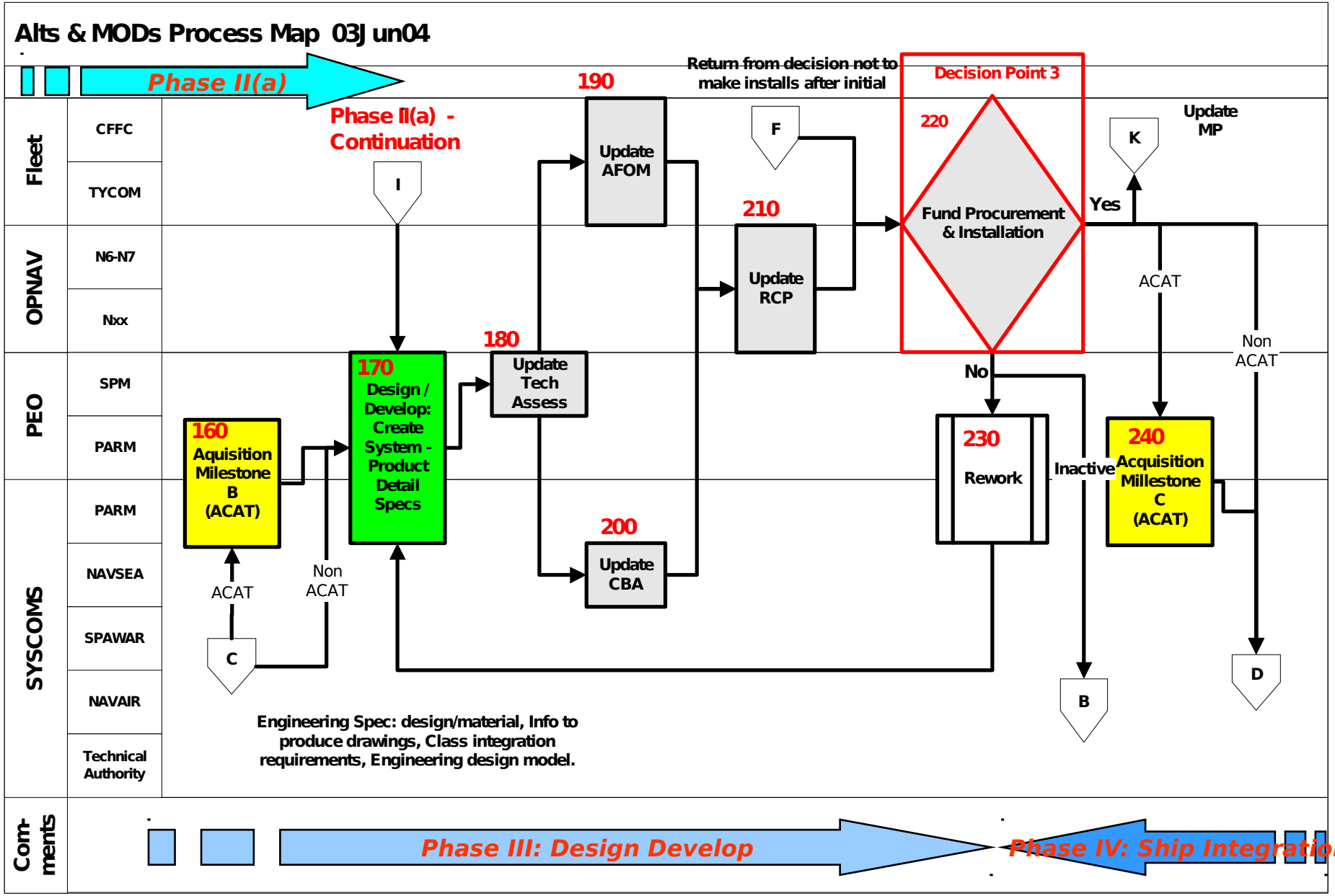
- 75 - O6 Level
  - Simple, Low Cost, Non-ACAT
- 20 – 1 / 2 Star Level
  - Complex, Bigger $, ACAT III, IV
- 5 – 3 Star Level
  - Fleet Wide, Major $, ACAT I, II

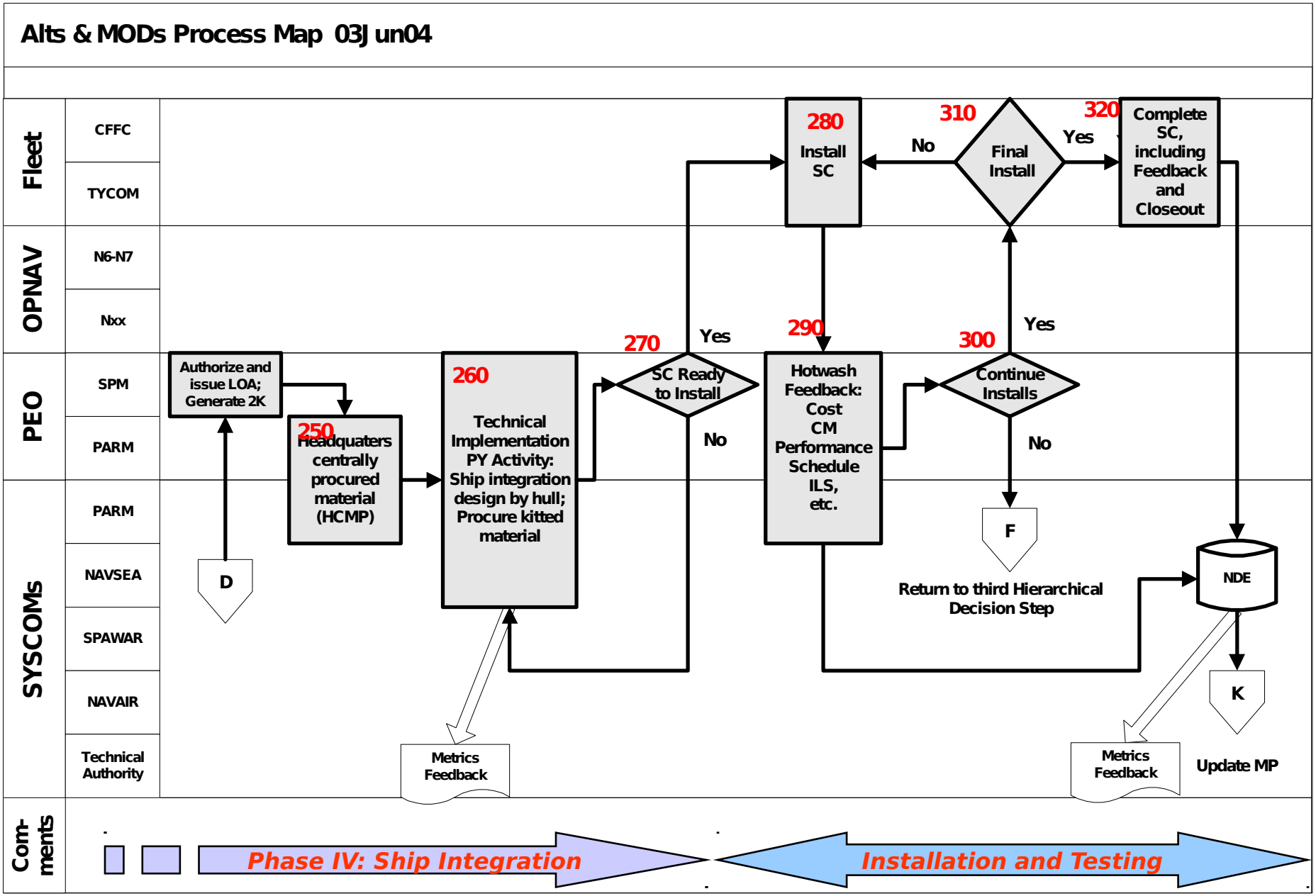
Modernization Plan



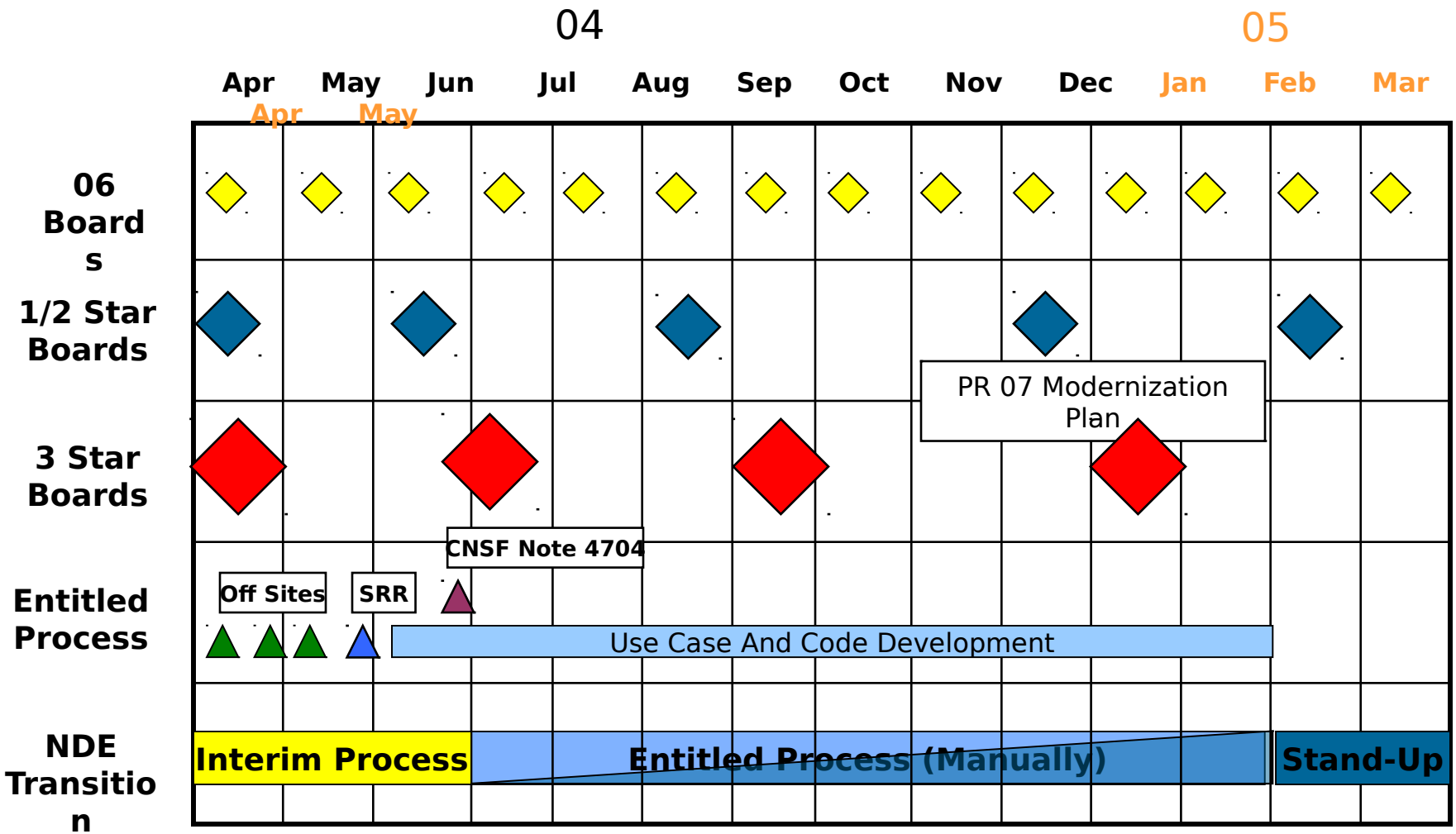

Alts & MODs Process Map 03Jun 04
Fleet
CFFC
TYCOM
OPNAV
N6-N7
Nxx
PEO
SPM (Indluding PY)
PARM
SYSCOMS
PARM
NAVSEA
SPAWAR
NAVAIR
Technical Authority
Com-ments
Idea
Complete Ship Change Document (SCD). This will be the single document that remains with an Ship Change (SC) throughout its development.
Minimum information level is equivalent to that required to support Acuisition Milestone A as defined in DOD 5000 series.
Concept Development level engineering is the responsibility of the submitting activity.
10
NDE
B Inactive
20
Tech Assess
30
AFOM
AFOM and CBA are independent and executed in parallel.
40
CBA
Independent Cost Review Team reviews cost estimates.
RCP
Recommendated Change Package (RCP) is an executive summary document with recommendations.
Decision Point 1
60
Authorize Fund Prelim Engineering
Yes
No
A
Inactive
Phase I: Preliminary Analysis


Alts & MODs Process Map 03Jun04
Phase II(a)
Fleet
CFFC
TYCOM
OPNAV
N6-N7
Nxx
PEO
SPM
PARM
SYSCOMS
PARM
NAVSEA
SPAWAR
NAVAIR
Technical Authority
Com-ments
PHASE II(a)
70
Input to Moderniza-tion Plan
I
Non-ACAT
ACAT
A
K
80
Aquisition Milestone A (ACAT)
90
Perform Prelim Eng.: Develop Systems Performance Specs.
100
Update Tech Assess
110
Update AFOM
120
Update CBA
130
Update RCP
Decision Point 2
140
Authorize Fund Design Development
Yes
No
K
C
150
Rework
Inactive
B
Metrics Feedback
Phase II: Concept Design
Phase III


Alts & MODs Process Map 03Jun04
Phase II(a)
Phase II(a) - Continuation
Return from decision not to make installs after initial
Decision Point 3
Fleet
CFFC
TYCOM
OPNAV
N6-N7
Nxx
PEO
SPM
PARM
SYSCOMS
PARM
NAVSEA
SPAWAR
NAVAIR
Technical Authority
Com-ments
I
F
K
C
B
D
190
Update AFOM
210
Update RCP
220
Fund Procurement & Installation
Yes
Update MP
ACAT
Non ACAT
No
Inactive
180
Update Tech Assess
170
Design / Develop: Create System - Product Detail Specs
160
Aquisition Milestone B (ACAT)
200
Update CBA
230
Rework
240
Acquisition Millestone C (ACAT)
ACAT
Non ACAT
Engineering Spec: design/material, Info to produce drawings, Class integration requirements, Engineering design model.
Phase III: Design Develop
Phase IV: Ship Integration


Alts & MODs Process Map 03Jun04
Fleet
CFFC
TYCOM
OPNAV
N6-N7
Nxx
PEO
SPM
PARM
SYSCOMs
PARM
NAVSEA
SPAWAR
NAVAIR
Technical Authority
Com-ments
Authorize and issue LOA; Generate 2K
D
250
Headquaters centrally procured material (HCMP)
260
Technical Implementation PY Activity: Ship integration design by hull; Procure kitted material
Metrics Feedback
270
SC Ready to Install
Yes
No
280
Install SC
290
Hotwash Feedback: Cost CM Performance Schedule ILS, etc.
300
Continue Installs
Yes
No
F
Return to third Hierarchical Decision Step
310
Final Install
No
Yes
320
Complete SC, including Feedback and Closeout
NDE
K
Metrics Feedback
Update MP
Phase IV: Ship Integration
Installation and Testing

CFT 4 Schedule – Long Term
(Entitled Process)



CFT 4 Entitled Process Development

- **Offsites**
  - **6 – 8 APR Washington**
  - **27 –29 APR Washington**
  - **11 – 13 MAY NETWARCOM**
- **Four Teams**
  - **Voting and Workflow**
  - **Technical Assessment**
  - **Cost Benefit Analysis (CBA)**
  - **Alteration Figure of Merit (AFOM)**
- **Draft Business Rules, Detailed Process Charts and Use Cases distributed 17 May**
- **Software Requirements Review (SRR) 27 May**
- **Stakeholders Initial Training (Jun – Jul)**
- **Intended result is manual operation of the entitled process in Jul/Aug 04**

Summary
{What Have We Done}

- **Created a Single Process for all Alterations and Modifications**
  - ✓ **Fleet or Program, consistent process**
  - ✓ **Weeds out early, ALTS that would not be installed**
- **All Stakeholder/Decision Makers Identified by Billet (Fleet/OPNAV/Sponsor) and involved throughout**
- **Created an Environment where we can treat Fleet Modernization from a Surface Navy perspective rather than each ALT/MOD discretely**
  - ✓ **Leads to development of a Modernization Plan**